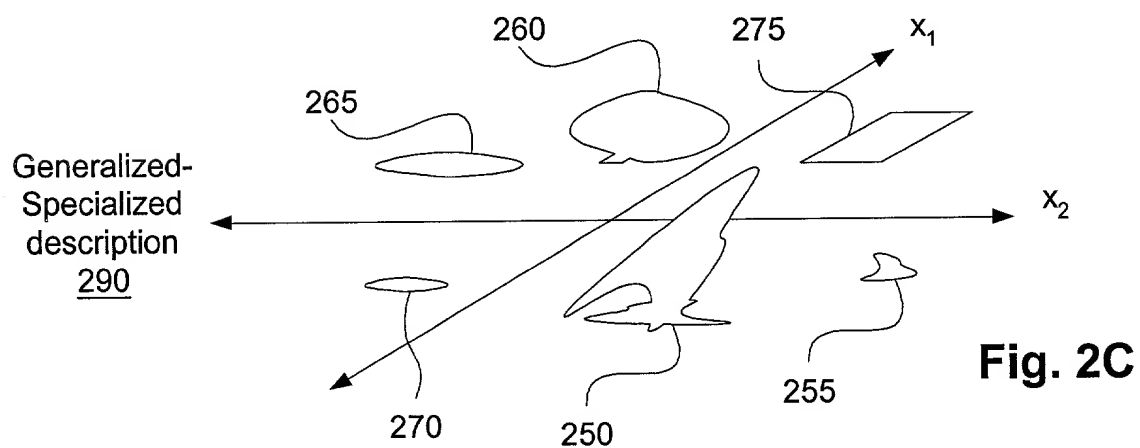
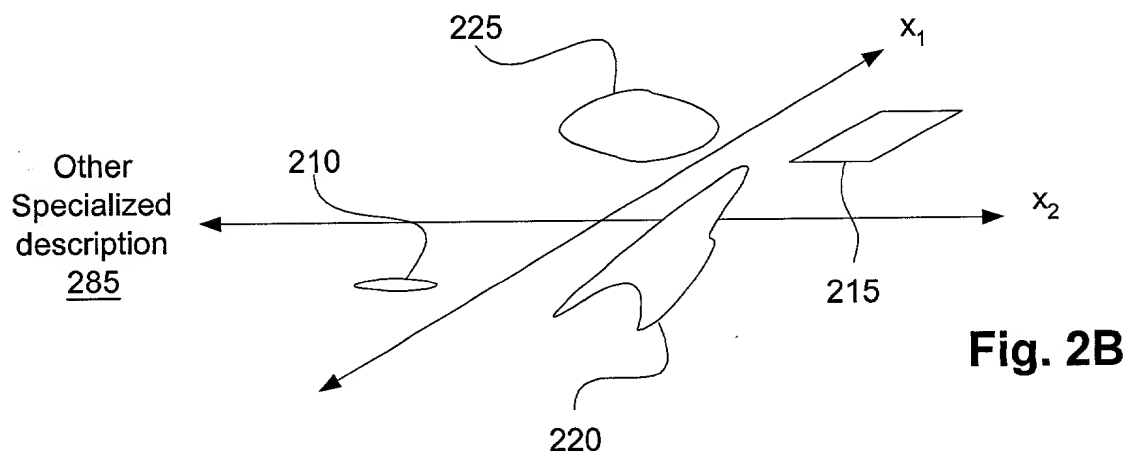
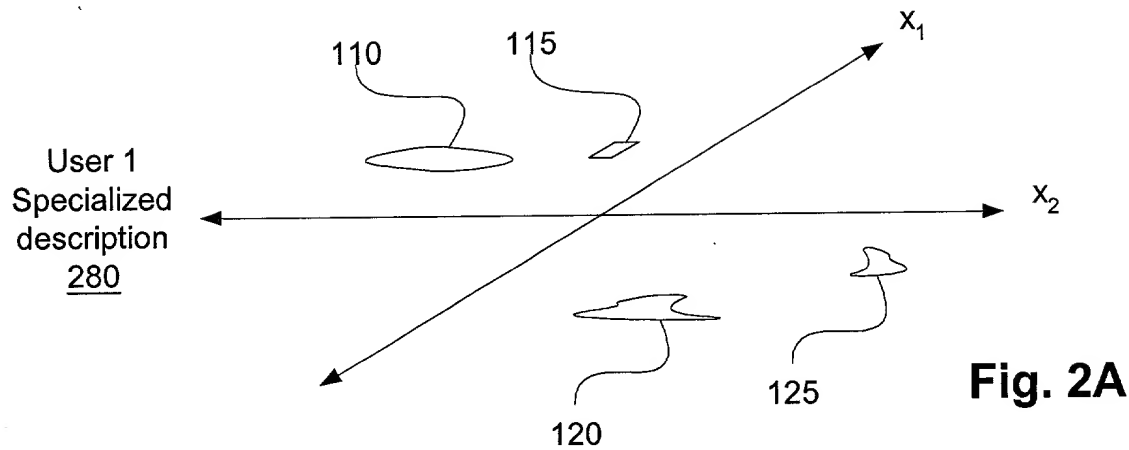


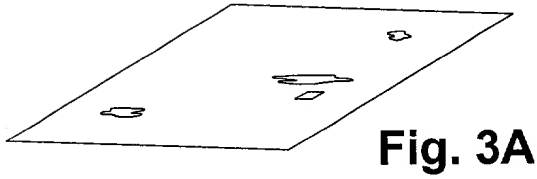
The diagram illustrates the relationship between different levels of description and a Version space, mapped onto a 2D plane with axes  $x_1$  and  $x_2$ .

- Null (100):** A large, empty parallelogram representing the full space of possible descriptions.
- Generalized description 165 (101):** A smaller parallelogram within the Null space, representing a generalized description. It contains a cloud-like shape (103) and a rectangular shape (102).
- Specialized description 170 (110, 115):** Two smaller shapes (cloud-like 110 and rectangular 115) within the Generalized description space.
- Version space (104):** A region defined by a bracket on the right, containing the Generalized description 165 and the Specialized description 170.
- First training example (120, 125, 130):** Three specific shapes (cloud-like 120, cloud-like 125, and cloud-like 130) located outside the Version space, representing specific training examples.

**Fig. 1**



User's Generalized  
description 165



User's Specialized  
description 170

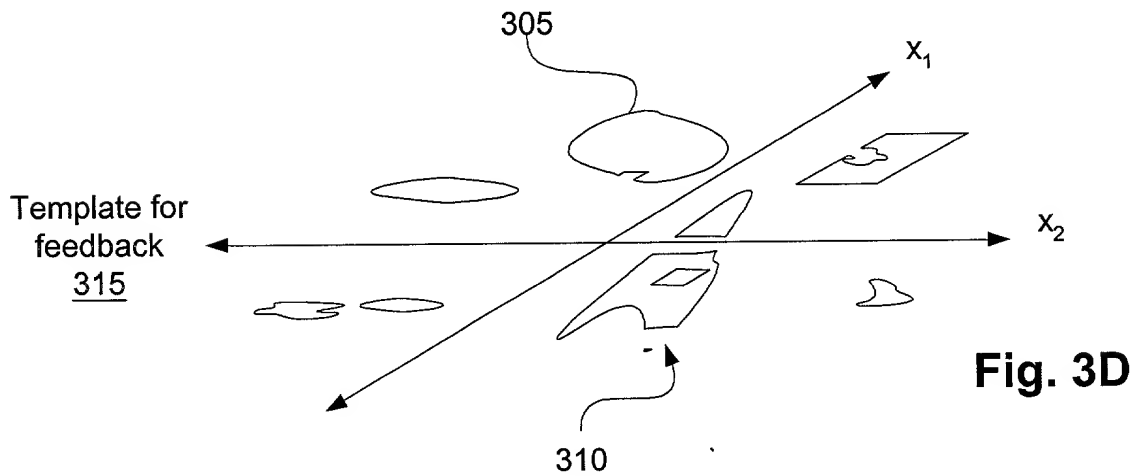
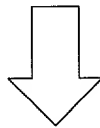
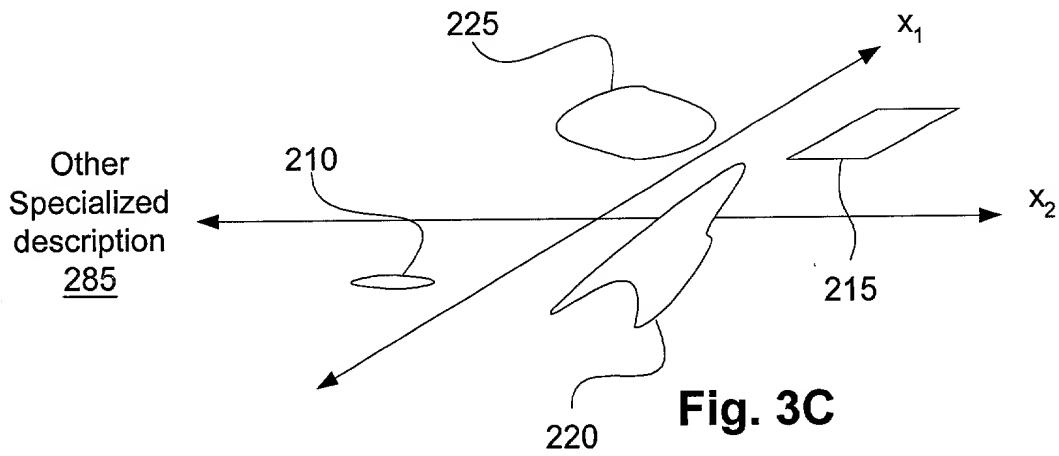
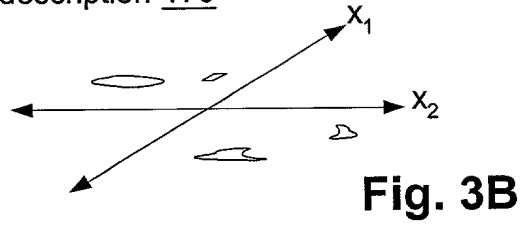


FIG. 4A

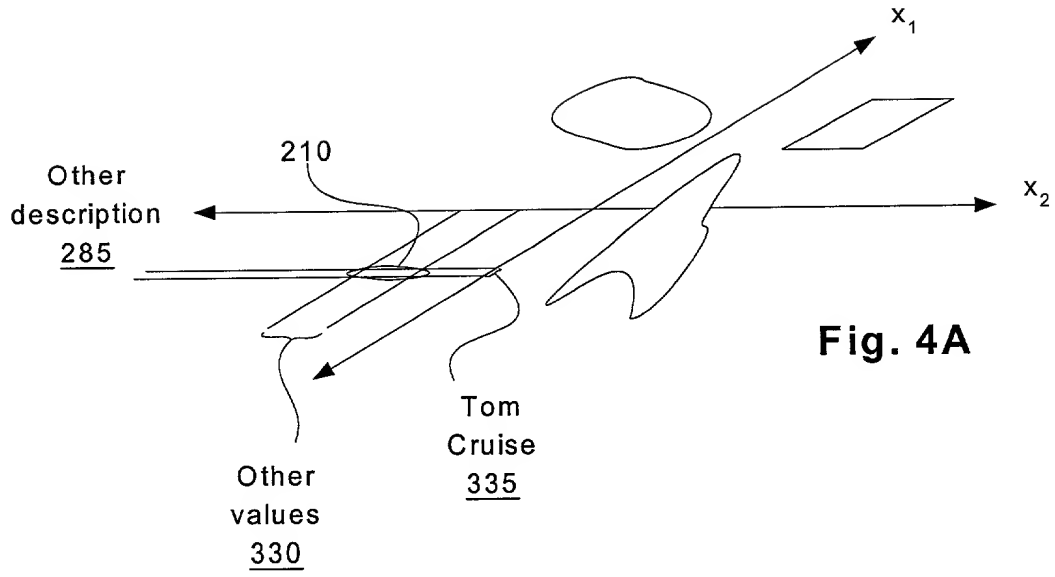


Fig. 4A

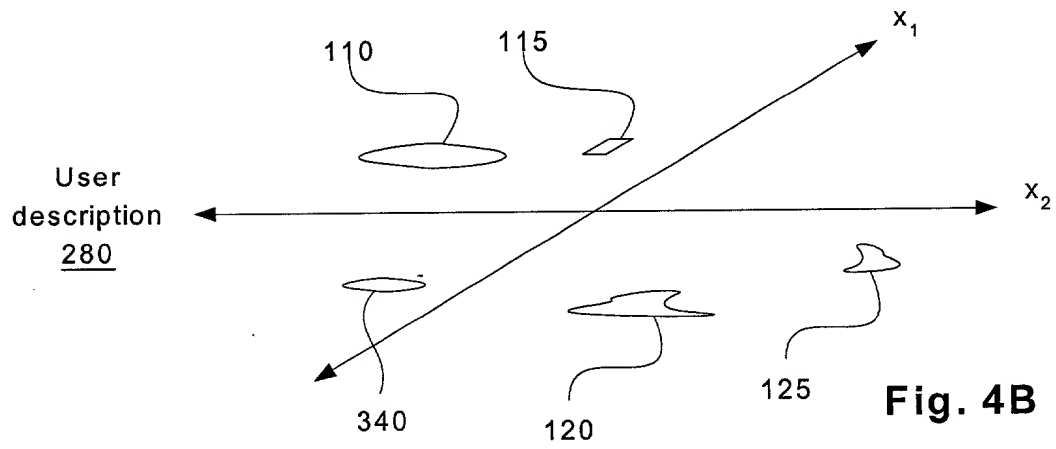
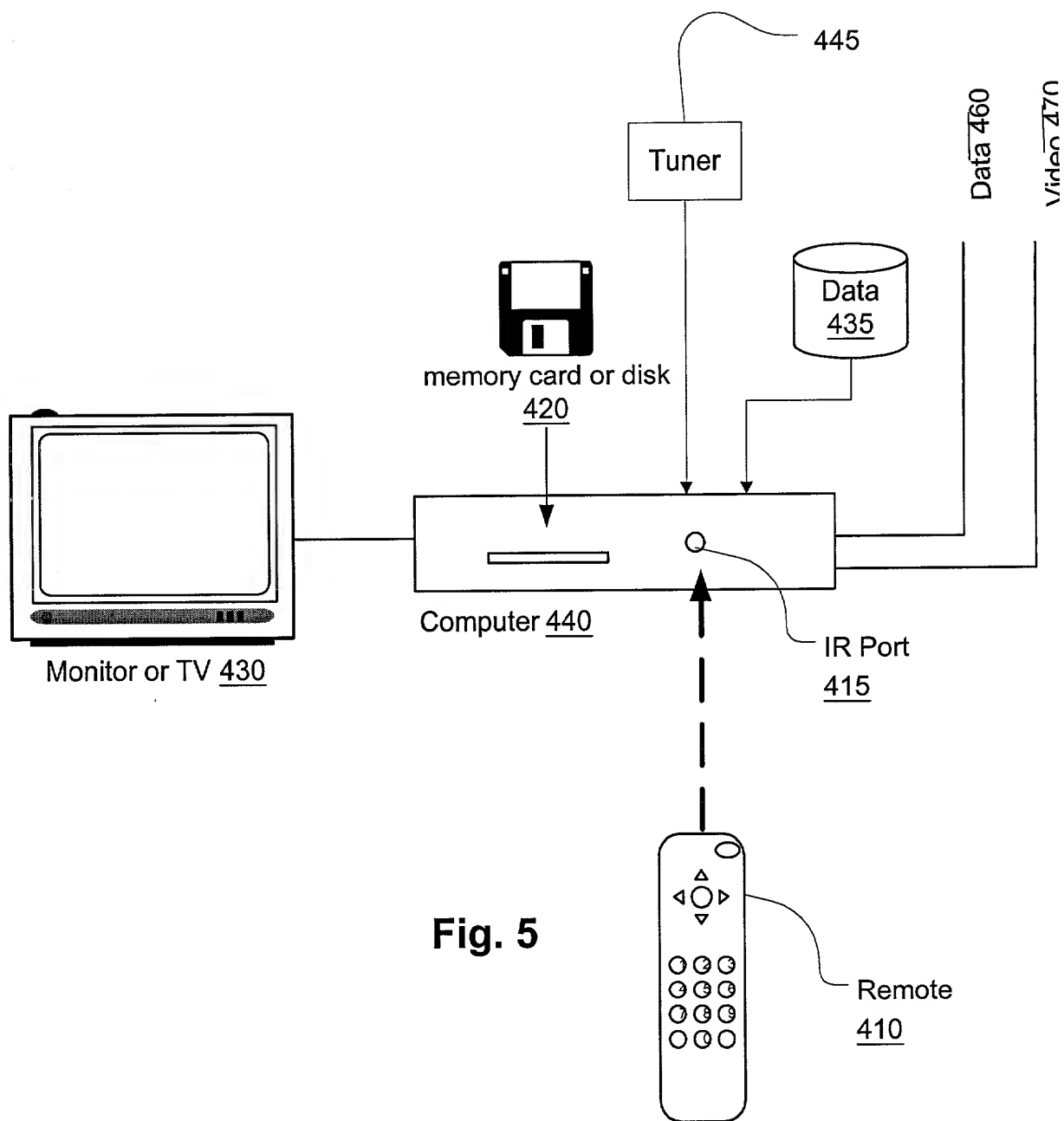
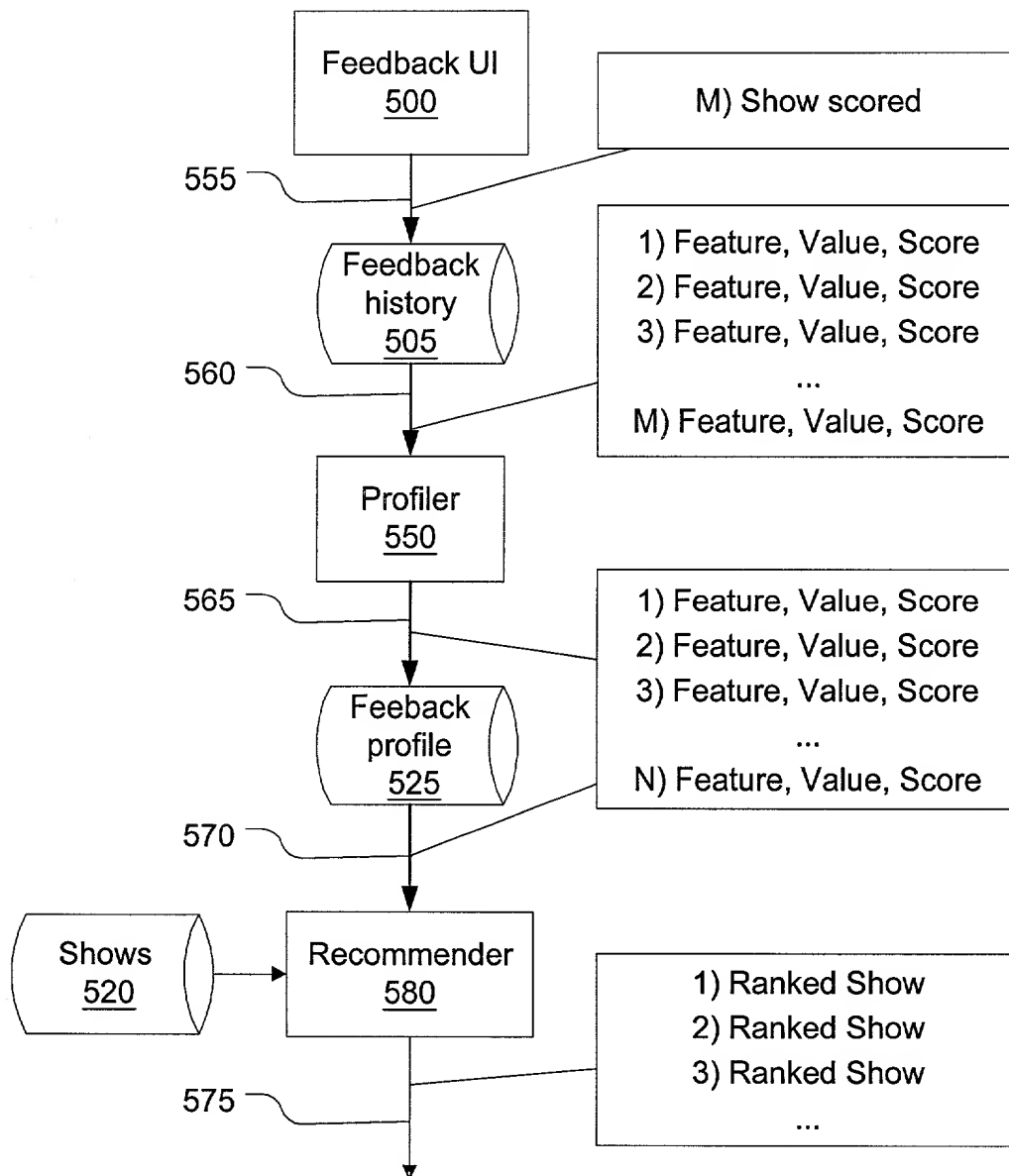


Fig. 4B



**Fig. 5**



**Fig. 6**

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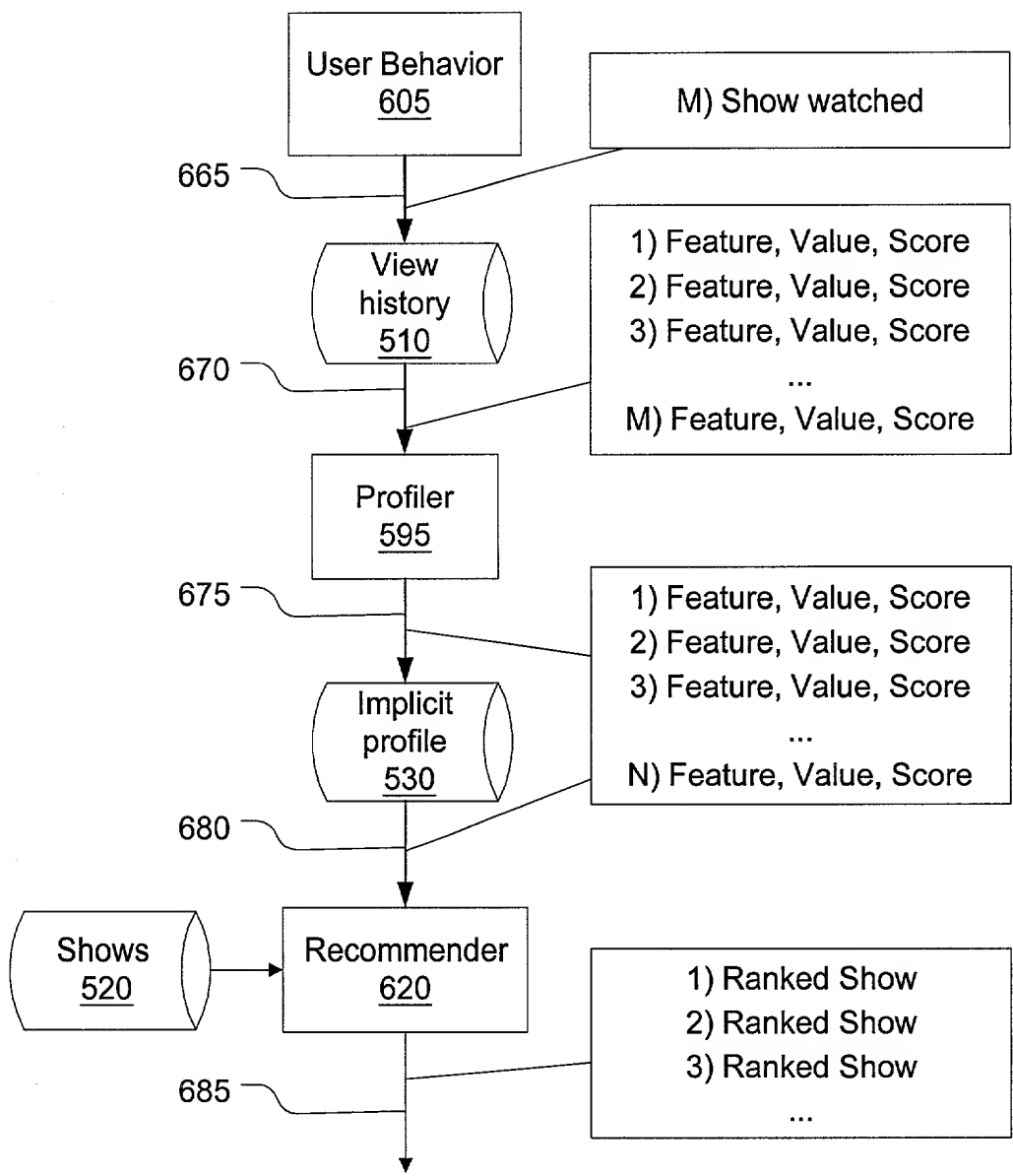


Fig. 7